

**UNITED STATES DEPARTMENT OF COMMERCE****Patent and Trademark Office**Address: COMMISSIONER OF PATENTS AND TRADEMARKS  
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
09/557,423	04/21/00	BELOTSERKOVSKII	B A-68112-1/RF

HM12/1031  
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EXAMINER

LOEB, B

ART UNIT	PAPER NUMBER
1636	4

DATE MAILED:

10/31/00

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

<b>Office Action Summary</b>	<b>Application No.</b> 09/557,423	<b>Applicant(s)</b> BELOTSERKOVSKII ET AL.
	<b>Examiner</b> Bronwen M. Loeb	<b>Art Unit</b> 1636

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).

**Status**

- 1) Responsive to communication(s) filed on \_\_\_\_\_.
- 2a) This action is **FINAL**.                  2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) Claim(s) 1-112 is/are pending in the application.
  - 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) Claim(s) \_\_\_\_\_ is/are allowed.
- 6) Claim(s) \_\_\_\_\_ is/are rejected.
- 7) Claim(s) \_\_\_\_\_ is/are objected to.
- 8) Claims 1-112 are subject to restriction and/or election requirement.

**Application Papers**

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on \_\_\_\_\_ is/are objected to by the Examiner.
- 11) The proposed drawing correction filed on \_\_\_\_\_ is: a) approved b) disapproved.
- 12) The oath or declaration is objected to by the Examiner.

**Priority under 35 U.S.C. § 119**

- 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).
  - a) All b) Some \* c) None of the CERTIFIED copies of the priority documents have been:
    1. received.
    2. received in Application No. (Series Code / Serial Number) \_\_\_\_\_.
    3. received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

- 14) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. & 119(e).

**Attachment(s)**

- |  |  |
|--|--|
| 15) <input type="checkbox"/> Notice of References Cited (PTO-892)<br>16) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)<br>17) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____. | 18) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s). _____.<br>19) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)<br>20) <input type="checkbox"/> Other: _____. |
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## DETAILED ACTION

### ***Election/Restrictions***

1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
  - I. Claims 1-63 and 112, drawn to a composition polynucleotides, claims 64-66, drawn to a cell containing the composition, and claim 108, drawn to a kit comprising the composition, classified in class 536, subclass 24.3, class 514, subclass 44, class 435, subclass 325 and class 435, subclass 252.3.
  - II. Claims 67-88, drawn to a method of modulating transcription or replication of a pre-selected target sequence, classified in class 435, subclass 440.
  - III. Claim 89, drawn to a method of treating a disease state of a plant or animal caused by expression of a disease gene, classified in class 514, subclass 44.
  - IV. Claims 90-93, drawn to a method of detecting a double stranded nucleic acid target sequence, classified in class 435, subclass 6.
  - V. Claims 94-99, drawn to a method of isolating either strand of a double stranded target sequence, classified in class 536, subclass 23.1.
  - VI. Claims 100-104, drawn to a method of isolating either strand of at least one member of a gene family, classified in class 536, subclass 23.1.
  - VII. Claim 105, drawn to a method of producing a transgenic non-human organism, classified in class 435, subclass 455.

- VIII. Claim 106, drawn to a method of producing a transgenic plant, classified in class 435, subclass 468.
- IX. Claim 107, drawn to a method of determining the function of a double stranded nucleic acid target sequence, classified in class 435, subclass 6.
- X. Claim 109-111, drawn to a method of inhibiting double stranded nucleic acid rotation or branch migration, classified in class 536, subclass 440.

2. Inventions II-X are distinct methods from each other, having different starting material, different outcomes and different uses.

Inventions I and II-X are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case the composition of Invention I can be used in multiple materially different processes, as evidenced by the plethora of method claims using it.

3. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter and different classification, restriction for examination purposes as indicated is proper.

4. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a petition under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Certain papers related to this application may be submitted to Art Unit 1636 by facsimile transmission. The faxing of such papers must conform with the notices published in the Official Gazette, 1156 OG 61 (November 16, 1993) and 1157 OG 94 (December 28, 1993) (see 37 C.F.R. § 1.6(d)). The official fax telephone numbers for the Group are (703) 308-4242 and (703) 305-3014. NOTE: If Applicant does submit a paper by fax, the original signed copy should be retained by applicant or applicant's representative. NO DUPLICATE COPIES SHOULD BE SUBMITTED so as to avoid the processing of duplicate papers in the Office.

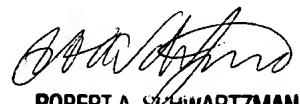
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bronwen M. Loeb whose telephone number is (703) 605-1197. The examiner can normally be reached on Monday through Friday, from 8:00 AM to 4:30 PM. A phone message left at this number will be responded to as soon as possible (usually no later than 24 hours after receipt by the examiner).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dr. George Elliott, can be reached on (703) 308-4003.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-0196.

Bronwen M. Loeb  
Patent Examiner  
Art Unit 1636

October 26, 2000



ROBERT A. SCHWARTZMAN  
PRIMARY EXAMINER